SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Identification of the mixture: SAR-GEL® Blue

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Water detection in hydrocarbons

1.3. Details of the supplier of the safety data sheet

Supplier

ARKEMA
Sartomer
420 rue d'Estienne d'Orves
92705 Colombes Cedex, FRANCE
Telephone: +33 (0)1 49 00 80 80
Telefax: +33 (0)1 49 00 83 96
E-mail address: pars-drp-fds@arkema.com
http://www.sartomereurope.com
http://www.arkema.com

1.4. Emergency telephone number

+ 33 1 49 00 77 77
European emergency phone number: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):
Serious eye damage, 1, H318

Additional information:
For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

Hazardous components which must be listed on the label:
Calcium oxide

Hazard pictograms:

Signal word: **Danger**

Hazard statements:
H318 : Causes serious eye damage.

Precautionary statements:
Prevention:
P280 : Wear eye protection and face protection.
Response:
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 : Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Potential health effects:
Skin contact: Causes mild skin irritation.

Repeated contact may cause allergic reactions in very susceptible persons.

Physical and chemical hazards:
Formation of toxic products through combustion Thermal decomposition giving flammable and toxic products.
Decomposition products: See chapter 10

Other:

Results of PBT and vPvB assessment :
Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

Endocrine disrupting properties - Health :
Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

Endocrine disrupting properties - Environment :
Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical nature of the mixture[1]:
Mixture based on: Polymer
Presence of : Amorphous silica

Components :

Chemical name[1] & REACH Registration Number[2]	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008	specific concentration limit, M-Factors, Acute toxicity estimate
Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-,	500-039-8	25322-69-4	30 - 60 %		
Polyethylene glycol	500-038-2	25322-68-3	30 - 60 %		
Silicon dioxide (01-2119379499-16)	231-545-4	112945-52-5	5 - 10 %	WEL substance	

Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)) :

Chemical name[1] & REACH Registration Number[2]	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008	specific concentration limit, M-Factors, Acute toxicity estimate
Calcium oxide (01-2119475325-36) (N° ANNEX: 006-007-00-5)	215-138-9	1305-78-8	5 - 10 %	Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3 (Inhalation); H335	

[1]: See chapter 14 for Proper Shipping Name
[2] :See the text of the regulation for applicable exceptions or provisions -

SECTION 4: FIRST AID MEASURES

4.1. Description of necessary first-aid measures:

General advice:
Show this safety data sheet to the doctor in attendance.

Inhalation:
Move to fresh air. Keep under medical surveillance. If symptoms persist, call a physician.

Skin contact:
Wash immediately, abundantly and thoroughly with soap and water. If skin irritation occurs, seek medical advice/attention.

Eye contact:
Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist immediately.

Ingestion:
Do NOT induce vomiting. Rinse mouth. Consult a physician if necessary.

Protection of first-aiders:
Protective suit. In case of insufficient ventilation, wear suitable respiratory equipment.

4.2. Most important symptoms and effects, both acute and delayed: No data available.

4.3. Indication of any immediate medical attention and special treatment needed: No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2), foam, Dry chemical

5.2. Special hazards arising from the substance or mixture:
Formation of toxic products through combustion:, Carbon oxides, Hazardous organic compounds
When burned, the following hazardous products of combustion can occur:, Nitrogen oxides, Alcohols, Aldehydes, Carboxylic acid, Ethers, Hazardous organic compounds

5.3. Advice for firefighters:

Specific methods:
In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective actions for fire-fighters:
In the event of fire, wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Prohibit contact with eyes. Avoid contact with skin.

6.2. Environmental precautions:
Do not flush into surface water or sanitary sewer system. Do not release into the environment.

6.3. Methods and materials for containment and cleaning up:

Recovery:
Shovel into suitable container for disposal. Absorb the remainder with an inert absorbent material (sand, vermiculite, perlite). Use clean non-sparking tools to collect absorbed material.

Elimination: See chapter 13

6.4. Reference to other sections: None.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Technical measures/Precautions:
Storage and handling precautions applicable to products: PASTY Corrosive. Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths

Safe handling advice:
Remove all sources of ignition. Avoid static electricity build up with connection to earth. In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures:
Take off immediately all contaminated clothing. Prohibit contact with skin and eyes. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.
Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:
Storage period: 12 Months, Storage temperature: < 45 °C

Incompatible products:
Store separate from:Acids Bases Oxidizing agents Reducing agents phosphorous compounds

7.3. Specific end use(s): None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values

Silicon dioxide

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
OSHA Z3 (US)	2000	TWA	–	20 millions of particles per cubic foot of air	–
OSHA Z3 (US)	2000	TWA	–	0,8	The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

Calcium oxide

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EU ELV	02 2017	TWA	–	1	Respirable fraction. Indicative value
EU ELV	02 2017	STEL	–	4	Respirable fraction. Indicative value
ACGIH (US)	02 2012	TWA	–	2	–

Derived No Effect Level (DNEL):
This information is not required.

Predicted No Effect Concentration:
This information is not required.

8.2. Exposure controls:

Appropriate engineering controls: When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Gloves nitrile rubber
Products used with solvents
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye/face protection: Safety glasses with side-shields, Do not wear contact lenses.

Skin and body protection: Long sleeved clothing

Environmental exposure controls: See chapter 6

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:

Physical state (20°C): solid

Form: paste

Colour: orange

Odour: sweet

Odour Threshold: No data available.

Melting point/range: No data available.

Boiling point/boiling range: No data available.

Flammability: No data available.

Lower explosion limit : No data available.

Upper explosion limit : No data available.

Flash point: No data available

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

pH: pH 2,6 - 8

Viscosity, kinematic:	No data available.
Water solubility:	slightly soluble
Partition coefficient: n-octanol/water:	CALCIUM OXIDE : inorganic
Vapour pressure:	No data available.
Relative density:	No data available.
Relative vapour density:	No data available.

9.2. Other information: None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical stability:
The product is stable under recommended handling and storage conditions.

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid:
Heat, flames and sparks. Remove all sources of ignition. Take precautionary measures against static discharges.

10.5. Incompatible materials to avoid:
Acids, Bases, Oxidizing agents, Reducing agents, phosphorous compounds

10.6. Hazardous decomposition products:
Formation of toxic products through combustion:, Carbon oxides
Thermal decomposition giving flammable and toxic products :, Aldehydes, ethers, Alcohols, Nitrogen oxides (NOx), Carboxylic acids, Hazardous organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

Inhalation:	**According to its composition, can be considered as Slightly harmful by inhalation**
Ingestion:	**According to its composition, can be considered as Slightly harmful by ingestion**
Dermal:	**According to its composition, can be considered as Slightly harmful in contact with skin.**

Local effects (Corrosion / Irritation / Serious eye damage):

Skin contact:	**According to its composition : Causes mild skin irritation.**
CALCIUM OXIDE : • In animals :	Skin irritation (OECD Test Guideline 404, Rabbit)
Eye contact:	**According to its composition : Causes serious eye damage.**
CALCIUM OXIDE : • In animals :	Severe eye irritation (OECD Test Guideline 405, Rabbit)

Respiratory or skin sensitisation:

Inhalation:	No data available.
Skin contact:	**According to its composition : Not a skin sensitizer Repeated contact may cause allergic reactions in very susceptible persons.**

CMR effects :

Mutagenicity:	**According to its composition, can be considered as Not genotoxic**
Carcinogenicity:	No data available.
Reproductive toxicity:	
Fertility:	**Based on the available data, the substance is not suspected of having reprotoxic potential.**

Foetal development: **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

Specific target organ toxicity :

Single exposure :

Inhalation: **According to its composition, can be considered as Possible irritation of respiratory system**

CALCIUM OXIDE :

Irritating to respiratory system.

Repeated exposure: **According to its composition : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.**

Aspiration hazard:

Not applicable

11.2. Information on other hazards:

Endocrine disrupting properties: **Based on the available information, it is not possible to conclude on the endocrine disruptor potential.**

Other information: Not relevant

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

12.1. Toxicity :

Fish: **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

LC50, 96 h (Oncorhynchus mykiss) : 50,6 mg/l (Method: OECD Test Guideline 203)

Aquatic invertebrates: **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

EC50, 48 h (Daphnia magna (Water flea)) : 49,1 mg/l (Method: OECD Test Guideline 202)

Aquatic plants: **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

ErC50, 72 h (Pseudokirchneriella subcapitata) : 184,6 mg/l (Method: OECD Test Guideline 201)

Microorganisms:

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

EC50, 3 h (Activated sludge) : 300,4 mg/l (Method: OECD Test Guideline 209, Respiration inhibition)

Aquatic toxicity / Long term toxicity:

Aquatic invertebrates:

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

NOEC, 14 d (Crangon crangon (shrimp)) : 32 mg/l

Aquatic plants:

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

ErC10, 72 h (Pseudokirchneriella subcapitata) : 79,2 mg/l (Method: OECD Test Guideline 201)

Non aquatic toxicity / Toxicity :

Toxicity to soil dwelling organisms:

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

NOEC, 28 d (Eisenia fetida (earthworms)) : 2.000 mg/kg (Soil dw) (Method: OECD Test Guideline 222, reproduction)
NOEC, 28 d (Microorganisms) : 1.000 mg/kg (Soil dw) (Method: OECD Test Guideline 216)

Terrestrial plants:

CALCIUM OXIDE :

May be considered as comparable to a similar product for which experimental results are:

CALCIUM DIHYDROXIDE :

NOEC, 21 d (Beta vulgaris (beet)) : 1.080 - 2.270 mg/kg (Method: OECD Test Guideline 208)

12.2. Persistence and degradability :

Biodegradation (In water): **Based on the available information, it is not possible to conclude on biodegradability of this mixture.**

CALCIUM OXIDE :

Not applicable, inorganic

12.3. Bioaccumulative potential :

Bioaccumulation: **Based on the available information, it is not possible to conclude on the bioaccumulation potential of this mixture.**

CALCIUM OXIDE :

inorganic

12.4. Mobility in soil - Distribution among environmental compartments: No data available.

12.5. Results of PBT and vPvB assessment :

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

12.6. Endocrine disrupting properties:

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

12.7. Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal of product: Do not release into the environment. Dispose of in accordance with local regulations.

Disposal of packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

15.2. Chemical safety assessment:

This information is not required.

INVENTORIES:

European union/EEA : In the event of purchase from an Arkema legal entity based in the European Economic Area (EEA), it is established that this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, given that all of its components are excluded, exempted and / or registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information.

TSCA (USA) : The components of this product are all on the TSCA Inventory
DSL/NDSL (CA) : All components of this product are on the Canadian DSL
IECSC (CN) : All components of this product are listed or exempted
ENCS (JP) : All components of this product are listed or exempted
ISHL (JP) : All components of this product are listed or exempted
KECI (KR) : Not all components of this product are listed or exempted
PICCS (PH) : All components of this product are listed or exempted
AIIC (AU) : All components of this product are listed or exempted
TCSI (TW) : All components of this product are listed or exempted

SECTION 16: OTHER INFORMATION

Full text of H, EUH-phrases referred to under sections 2 and 3

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Update:

Safety datasheet sections which have been updated:		Type:
15	Inventories	Revisions
	REGULATION (UE) N°2020/878	Revisions

Thesaurus:
NOAEL : No Observed Adverse Effect Level (NOAEL)
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)
bw : Body weight
food : oral feed
dw : Dry weight
vPvB : very Persistent and very Bioaccumulative
PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).